Phoenix Goodyear 31253 (Literald) 0217-00087

86-02

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 9

ORDER In the Matter of Docket No. 86-02 UNIDYNAMICS/PHOENIX, INC. (GOODYEAR, ARIZONA), Respondent. Proceeding Under Section 3013 of the Resource Conservation and Recovery Act (42 U.S.C. \$6934)

JURISDICTION

The following Order is issued on this date to Unidynamics/ Phoenix, Inc., 1000 N. Litchfield Road, Goodyear, Arizona (hereinafter referred to as Respondent), pursuant to the authority vested in the Administrator of the United States Environmental Protection Agency (EPA) under \$3013 of the Resource Conservation and Recovery Act (RCRA); 42 U.S.C. \$6934, and redelegated to the Director, Toxics and Waste Management Division, EPA, Region 9. Notice of issuance of this Order has been given to the State of Arizona.

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FINDINGS OF FACT

- Respondent is the current owner and operator or a facility located at 1000 N. Litchfield Road in Goodyear, Arizona (hereinafter referred to as facility).
- Respondent has engaged in the storage, treatment and disposal of hazardous wastes.
- On April 3, 1978, the EPA performed an inspection of the facility pursuant to the Clean Air Act. The inspection revealed that Respondent used a substantial amount of TCE (estimated at 1180 gallons/year) and other solvents. An inspection report was prepared after a review of Respondent's records and a physical inspection of Respondent's facility. The inspection report noted that TCE was disposed of by spraying on Respondent's land and was used to eradicate weeds. The report also indicated that waste solvents were disposed of in dry wells. In addition, the inspection report contained a rough calculation of the gross solvent disposal rate, which was estimated at 3 gallons per day. The report further stated that prior to 1978 nearly all waste solvents were disposed of on-site. A small portion was recycled, but most was sprayed on site or poured down the dry wells.
- 4. On June 2, 1978, Respondent provided information to Maricopa County Health Department stating that in 1977 Respondent used the solvents listed below in the quantities specified. Respondent also stated that the majority of the

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solvents used in 1977, once spent, were disposed of via on-site dry wells:

Solvent	Quantity	
TCE	1180 gal.	
Isopropyl Alcohol	660 gal.	
Toluene	60 gal.	
Methyl Ethyl Ketone	220 gal.	
Acetone	165 gal.	

- 5. On July 15, 1980, an EPA inspection of Respondent's facility documented the use of eleven dry wells and two unlined oxidation ponds for on-site waste disposal. The dry wells are 30 to 35 feet deep, approximately 30 inches in diameter, and filled with rocks. At the time of the inspection, one of the Respondent's representatives stated that all but two or three of the dry wells have been in existence since 1963. Most of the wells, according to the inspection report, received effluent from settling basins. Three of the wells, however, received untreated waste solvents. The report estimated Respondent's TCE usage at 1,000 gallons/year.
- 6. On January 7, 1981, Respondent submitted to EPA a RCRA Hazardous Waste Part A Permit Application. The following hazardous wastes, some of which are halogenated and non-halogenated solvents, were listed in the Hazardous Waste Part A Permit Application as being either treated, stored, or disposed at respondent's facility:

K054	Chrome Waste
D002	Corrosive Waste
D001	Ignitable Waste
D003	Reactive Waste
P012	Arsenic Trioxide

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P029
                          Copper Cyanide
 1
               P030
                          Cyanides
 2
               P031
                          Cyanogen
               P105
                          Sodium Azide
 3
                          Sodium Cyanide
               P106
               0002
                          Acetone
                          Aniline
               U012
 4
               U019
                          Benzene
                          Benzidine
               U021
 5
                          Calcium Chromate
               U032
               U044
                          Chloroform
 6
                          Di-n-Butyl Phthalate
               U069
               U112
                          Ethyl Acetate
 7
               U122
                          Formaldehyde
                          Methanol
               U154
 8
               U159
                          Methyl Ethyl Ketone
               U169
                          Nitrobenzene
 9
               U220
                          Toluene
                          Toluene Disocyanate
               U223
10
                          Trichloroethene, Trichloroethylene, or TCE
               U228
               080U
                          Dichloromethane
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     7.
         On June 8, 1981, Respondent submitted to EPA a Notification
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of Hazardous Waste Site pursuant to \$103(c) of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), 42 U.S.C. \$9603(c). The following hazardous wastes, classified as solvents, were reported by Respondent as being handled at the facility beginning in 1963:

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υ002	Acetone
U154	Methanol
U159	Methyl Ethyl Ketone
U220	Toluene
U226	1,1,1-Trichloroethane
U228	Trichloroethene, Trichloroethylene, or (TCE)

The notification also reported that Respondent handled unspecified acids beginning in 1963.....

8. On June 22, 1982, the Arizona Department of Health Services sampled the City of Goodyear Well #4 which is located on Respondent's property. The analysis showed a TCE concentration of 20.1 ppb.

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- On September 3, 1982, EPA sampled wells in the Goodyear The analysis of the sample taken from the City of Goodyear well #4 on Respondent's property .evealed a TCE concentration of 32 ppb.
- On September 2, 1982, Respondent submitted information in 10. response to EPA's request for information pursuant to Section 104 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), 42 U.S.C. \$9604, and Section 3007 of RCRA, 42 U.S.C. \$6927, which stated the following:
 - Spent TCE has been generated at a rate of approximately 1000 gallons/year since 1963.
 - Eleven dry wells and two oxidation ponds have been used В. for on-site waste disposal. Neither of the ponds is lined. All but two or three of the dry wells have been used since 1963. Three of the dry wells have had waste dumped directly into them (i.e. without first passing through an oxidation pond).
 - C. Prior to 1978, nearly all waste solvents were disposed of on-site. A small percentage of TCE was recovered and reclaimed by Southwest Solvents of Chandler, Arizona. The remainder was sprayed on site land as a weed killer or poured into the dry wells.
 - D. A total of 5-10 gallons/week of Methyl Ethyl Ketone, Acetone, Isopropyl Alcohol, and Diacetone Alcohol was dumped directly into four dry wells.

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11.

As a result of EPA Administrative Order 84-03 issued on March 27, 1984, the Respondent undertook efforts to characterize the ground water quality and su: .ace characteristics in the area of the facility. The ground water in the area of the facility flows from the southeast to the northwest. The position of the monitoring well in relation to the dry wells determines if the monitoring well is upgradient or downgradient. The wells were installed by the Respondent in the Upper Alluvial Unit which is divided into three water bearing zones: the shallow subunit A is from 40 to 150 feet below ground surface; the intermediate subunit B is from 120 to 200 feet below ground surface; and the deep subunit C is from 190 to 360 feet below ground The following levels of trichloroethylene present surface. in the UAU beneath the facility are presented in the EPA Phase I Data Summary/ Report dated January 17, 1986:

Monitoring Well	TCE Concentration (samp	oling date)
MW-1-shallow/upgradient	2.1 ppb	(1/8/85)
MW-2-shallow/downgradie	nt 83,000 ppb	(1/8/85)
MW-3-shallow/downgradie	nt 26,000 ppb	(1/8/85)
MW-4-shallow/downgradie	nt 55,000 ppb	(1/8/85)
MW-5-intermediate/downg	radient not detected	
MW-6-deep/downgradient	3.6 ppb	(4/30/85)
·MW-7-shallow/downgradie	nt 19,000 ppb	(5/8/85)
MW-8-shallow/downgradie	nt 1,600 ppb	(6/1/85)
MW-9-shallow/upgradient	58 ppb	(5/6/85)

12. Spent halogenated and non-halogenated solvents, including TCE, are hazardous substances as defined by §101(14) of

- 13. TCE is used primarily as a metal degreasing agent and is slightly soluble in water. TCE is an anesthetic which depresses the central nervous system. TCE has been demonstrated to cause cancer in animals and it has also been shown to be mutagenic in certain laboratory tests. Short term exposure to TCE has been reported to produce liver and kidney damage and central nervous system disturbances in mammals, including humans.
- 14. EPA has determined in its ambient water quality criteria that 2.7 parts per billion (ppb) of TCE would be expected to produce one additional case of cancer in a population of 1,000,000 [F.R./Vol. 45, No. 231/November 28, 1980/p. 79341]. TCE has been detected in the ground water beneath the facility in concentrations as high as 83,000 ppb. This concentration is more than 10 times the level determined by EPA to pose a risk of one excess cancer incident in a population of 1,000,000.
- 15. The State of Arizona has established an action level of 5 ppb for TCE found in drinking water. Using this guideline, the State has requested the closure of drinking water wells in which the concentration of TCE exceeds 5 ppb.
- #4, located on Respondent's property, is the primary source of water for approximately 5,250 people in the Goodyear-Avondale area.

DETERMINATION

Based upon the foregoing Findings of Fact, the Director, Toxics and Waste Management Division, EPA, Region 9 has determined that hazardous wastes have been stored, treated, and disposed of at Respondent's Litchfield facility and that the release of such wastes from Respondent's facility has occurred and may present a substantial hazard to human health or the environment.

EPA has further determined that Respondent is a current owner and operator responsible for conducting the actions ordered herein, which are necessary to ascertain the nature and extent of the hazard.

IV

ORDER

Based upon the foregoing Determinations and Findings of Fact, Respondent is hereby ordered, pursuant to \$3013 of RCRA, as amended, 42 U.S.C. 6934, to begin all work stated in its proposal to continue the Remedial Investigation [Proposal] dated November 12, 1985, as amended by a letter dated December 6, 1985, within fifteen (15) days of the effective date of this Order. The final location of any monitoring wells to be installed during the remaining investigation shall be discussed with EPA before installation. All monitoring wells at the facility shall be sampled for the priority pollutant compounds within 45 days of receipt of this order. EPA will contact UPI to coordinate this sampling effort. All new wells shall be added to the existing quarterly sampling effort. Upon EPA's review of the data

generated by the Proposal, additional work may be required of the Respondent by EPA in a supplemental Order.

Respondent will make all reasonable efforts to obtain access to and use of any off-site areas. Respondent assumes full responsibility for any claims arising from the activities conducted by Respondent, its representatives, or consultants on third-party property in connection with this Order.

A letter confirming that work identified in the Proposal has begun [herein referred to as letter] must be submitted by Respondent to Jeff Rosenbloom, Environmental Protection Agency, at the address listed below, within twenty days of the date of this Order.

Respondent shall provide EPA with copies of all charts, maps, letters, memoranda, invoices, shipping manifests or other records or documents relevant to the subject matter of this Order as requested by EPA or which are required by RCRA, or any other applicable law, to be provided to EPA.

Respondent shall complete all work, including sample analyses, as set forth in the Proposal within six months after receipt of this Order. Provided, however, that to the extent delays occur as a result of factors beyond the Respondent's control, EPA and the Respondent shall negotiate appropriate modifications of this date. Respondent shall submit to EPA monthly status reports describing activities performed during that month including, but not limited to, a description of any well drilling, soil boring, sample collection, sample analysis, water level measurement, and engineering or geologic analysis. These monthly reports are to be sent to EPA within one month of

1 the completion of the previous month's tasks.

EPA reserves the right, after reviewing the information 3 gathered pursuant to this Order, and any other relevant data, to 4 | require UPI to carry out such additional investigations and/or 5||such response actions as may be appropriate, pursuant to applicable statutory authority.

UPI shall provide access to the facility to EPA, EPA's g contractors, state agencies, and their contractors at all reasongliable times. The Respondent shall permit such persons to be 10 present and to move freely in the area in which any work is being 11 conducted at all times when work is being conducted pursuant to 12 this Order.

This Order shall be binding upon the Respondent, its 14 trustees, receivers, assigns and successors in interest. 15 Respondent shall undertake to notify any prospective purchasers 16 of the facility or any portion thereof of the existence of this 17 Order, and shall notify EPA in writing that such notice has been 18 given prior to transfer of title of the property.

All activities carried out by the Respondent pursuant to 20 this Order shall be in full compliance with all applicable 21 Federal, State, and local laws and regulations.

Respondent, by consenting to this Order, does not waive any 23 | rights or defenses it might otherwise have under applicable 24 statutory authority to any future orders, including supplemental 25 orders, issued by EPA with respect to this site.

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OPPORTUNITY TO CONFER

Under the provisions of RCRA, Respondent may confer with EPA at any time prior to submittal of the letter. At any conference held pursuant to Respondent's request, Respondent may appear in person and by attorney or other representatives for the purpose of presenting any objections, defenses or contentions which Respondent may have regarding this Order. Any objection, defense or contention which Respondent may make should be in writing, 10 signed and forwarded to the contact person named below on or 11 before the date on which Respondent is required to submit the 12 | letter. The opportunity to confer does not alter the require-13 ment for submittal of the letter within twenty days of the 14 effective date of this Order.

VI

LIABILITY

If EPA determines that Respondent is not able to conduct 18 the activities required by this Order, or if actions carried out 19 are deemed unsatisfactory, then EPA may conduct such actions 20| deemed reasonable by EPA to ascertain the nature and extent of the hazard. Respondent may then be ordered to reimburse EPA for the costs of such activity pursuant to \$3013(d) of RCRA, 42 U.S.C. \$6934(d). In the event Respondent fails or refuses to comply with the terms and provisions of this Order, EPA may commence a civil action, pursuant to § 3013(e) of RCRA, 42 U.S.C. §6934(c) 26|to require compliance with such Order and to assess civil penalties 27 hot to exceed \$5,000 for each day that Respondent fails 28 or refuses to comply. It is so ordered on this _ day of March,

This order shall become effective immediately. UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 3 Original Signed LY: BY: Harry Seraydarian Director, TCXICS & WASTE MANAGEMENT DIVISION 6 8 Contact person: 10 Jeff Rosenbloom (T-4-2) 11 Environmental Protection Agency 215 Fremont Street San Francisco, California, 94105 Telephone: (415) 974-7513 13 14 15 16 17 18 19 20 21 22 23 24

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